

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions. The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Previously Presented) A method for coding a structured document, comprising:

generating a plurality of codes using at least one name space and allocating the plurality of codes for types defined by name spaces;

carrying out, for each name space, an assignment to further name spaces such that at least one assignment information is generated such that at least one inheritance relationship is described between an inheriting name space and bequeathing name spaces; and

forming the assignment information of the inheriting name space from a list of codes of the basic types of header types of the inheriting name space, with basic types being types from which the header type originates directly or from which a header type originates, which in turn is the basic type of a header type of the inheriting name space.

2. (Previously Presented) The method as claimed in claim 1, wherein a subset comprising addressable types of a name space is determined based on an initial basic type on the basis of an inheritance relationship between the name spaces and the inheritance relationships in a name space of the basic type and the inheritance relationships in the name space of the subset.

3. (Previously Presented) The method as claimed in claim 2, wherein the addressable subset is determined based on an initial basic type by establishing the basic types of the bequeathing name space.

4. (Previously Presented) The method as claimed in claim 3, wherein, based on the initial basic type for determining the subset, header types are determined in the inheriting name space, for which basic types are identified from the bequeathing name space by use of the assignment information, the initial basic type being a basic type of the basic types of the bequeathing name space.

5. (Previously Presented) The method as claimed in claim 1, wherein the assignment information assigned to the inheriting name spaces is stored together with the respective name space in a first device carrying out at least one of the coding and decoding.

6. (Previously Presented) The method as claimed in claim 5, wherein the assignment information assigned to the inheriting name spaces is generated in a second device and transmitted together with the respective name space, in a first device carrying out at least one of the coding and decoding.

7. (Previously Presented) The method as claimed in claim 1, wherein respectively separate codes, which are independent of at least one of other schemas and name spaces, for the elements at least one of defined and declared in at least one of the schemas, name spaces, and in the groups of at least one of schemas and name spaces, are allocated for at least one of a schema, a name space and for a group of at least one of schemas and name spaces.

8. (Previously Presented) The method as claimed in claim 7, wherein, to identify the at least one of schema, name space and the group of at least one of schemas and name spaces, the separate codes are sub-divided into corresponding address areas.

9. (Previously Presented) The method as claimed in claim 7, wherein the separate codes respectively comprise a local code at least one of relating to at least one of the schema and the name space and relating to at least one of the group of schemas and name spaces and an identification code to identify at least one of the schema, name space and the group of at least one of schemas and name spaces.

10. (Previously Presented) The method as claimed in claim 7, wherein separate codes are generated for at least one of global elements, substitution groups and data types.

11. (Previously Presented) The method as claimed in claim 10, wherein separate codes are generated for data types type codes such that within the inheritance tree of a name space, the data type adjacent to a first data type in the same name space is at a code interval in respect of the first data type, said code interval corresponding to the number of data types derived from the first data type in this name space.

12. (Previously Presented) The method as claimed in claim 7, wherein the separate codes within a given name space are allocated according to a method comprising:

 sorting all data types of a name space, which were bequeathed from data types of other name spaces, in a list in the sequence of global type codes of the

respective basic data types as defined in the MPEG-7 standard, the basic data types being the data types in other name spaces, from which the sorted data types were bequeathed;

 sorting data types of a name space, which were bequeathed from a specific basic data type of a specific other name space, lexicographically in each instance;

 sorting all the data types of a name space, which were not bequeathed from a data type of another name space, according to the sequence defined in the MPEG-7 standard into the existing list of data types; and

 allocating the separate codes in list sequence to the data types of the name space.

13. (Previously Presented) A method for decoding a structured document, comprising: decoding a document previously coded according to a method as claimed in claim 1.

14. (Previously Presented) A method for decoding a structured document, comprising: decoding a document previously coded according to a method as claimed in claim 11 wherein, to decode a binary type code, the code length of the separate codes of the binary type codes is determined from the number of derived data types.

15. (Previously Presented) A method for decoding a structured document, comprising: decoding a document previously coded according to a method as claimed in claim 4, wherein, to decode a specific type code, the sub-tree of the inheritance tree of the name space, in which the specific type code is located, is determined from the code intervals between adjacent data types.

16. (Previously Presented) A method for decoding an XML-based document, comprising: decoding a document previously coded according to a method as claimed in claim 1.
17. (Previously Presented) A method for decoding an XML-based document, comprising: decoding a document previously coded according to a method as claimed in claim 11, wherein, to decode a binary type code, the code length of the separate codes of the binary type codes is determined from the number of derived data types.
18. (Previously Presented) A method for decoding an XML-based document, comprising: decoding a document previously coded according to a method as claimed in claim 11, wherein, to decode a specific type code, the sub-tree of the inheritance tree of the name space, in which the specific type code is located, code length is determined from the code intervals between adjacent data types.
19. (Previously Presented) A method for decoding an XML-based document, comprising: decoding a document previously coded according to a method as claimed in claim 11, wherein, to determine the basic types, which originate from an initial basic type, code length is determined from the code intervals between adjacent data types.
20. (Previously Presented) A method for decoding an XML-based document, comprising: decoding a document previously coded according to a method as claimed in claim 11, wherein, to determine the number of types in the subset, code length is determined based on the header types from the code intervals between adjacent header types.

21. (Previously Presented) A coding device, configured to implement a coding method as claimed in claim 1.

22. (Previously Presented) A decoding device, configured to implement a decoding method as claimed in claim 13.

23. (Previously Presented) A coding and decoding device comprising a coding device as claimed in claim 21.

24. (Cancelled)

25. (Previously Presented) A method as claimed in claim 1, for coding an XML-based document.

26. (Previously Presented) A method as claimed in claim 13, for decoding an XML-based document.

27. (Previously Presented) A coding and decoding device comprising a decoding device as claimed in claim 22.

*** END CLAIM LISTING ***